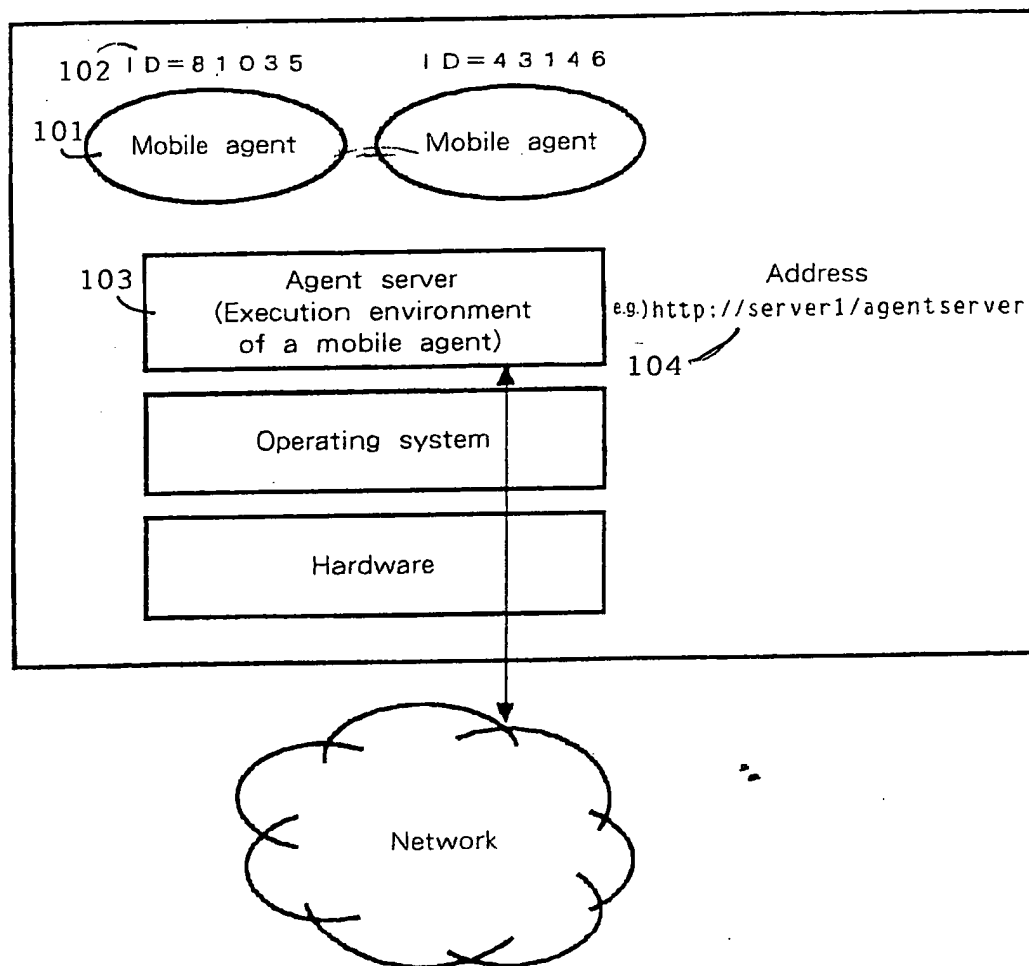


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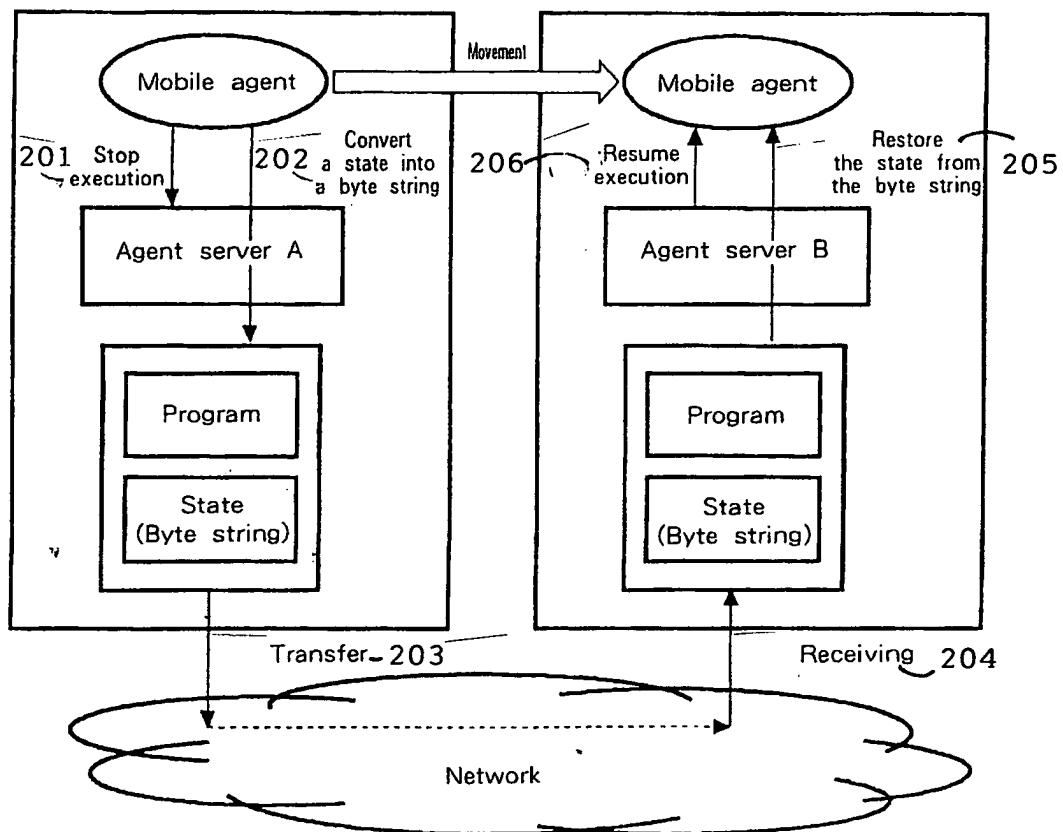


Fig. 2

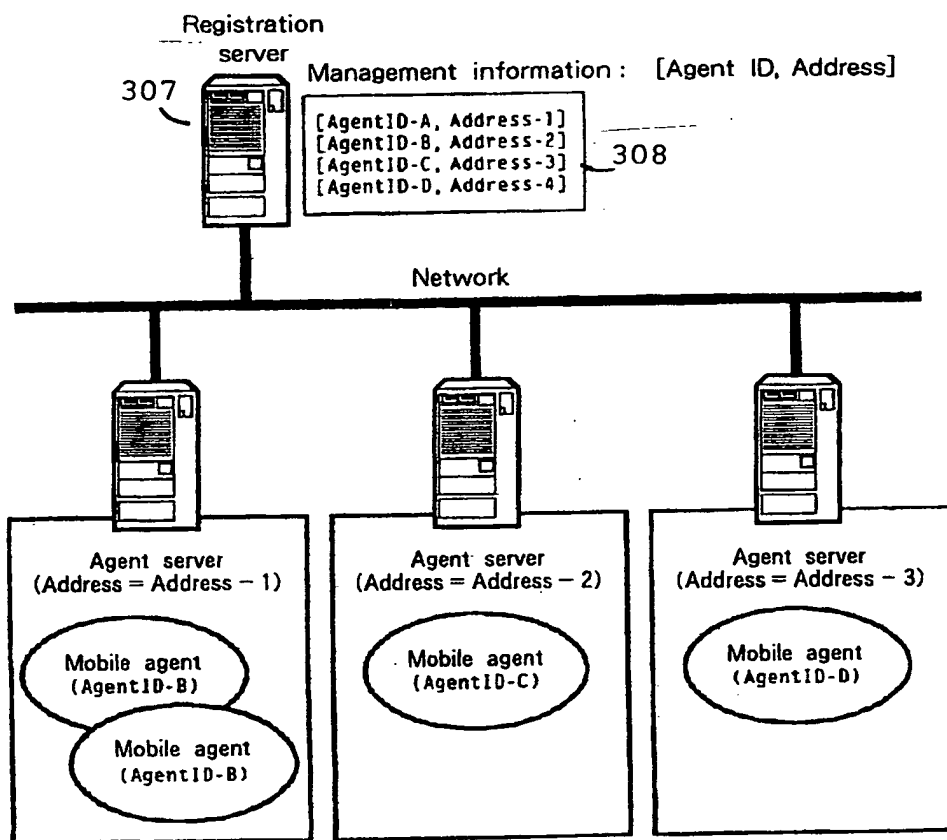


Fig. 3

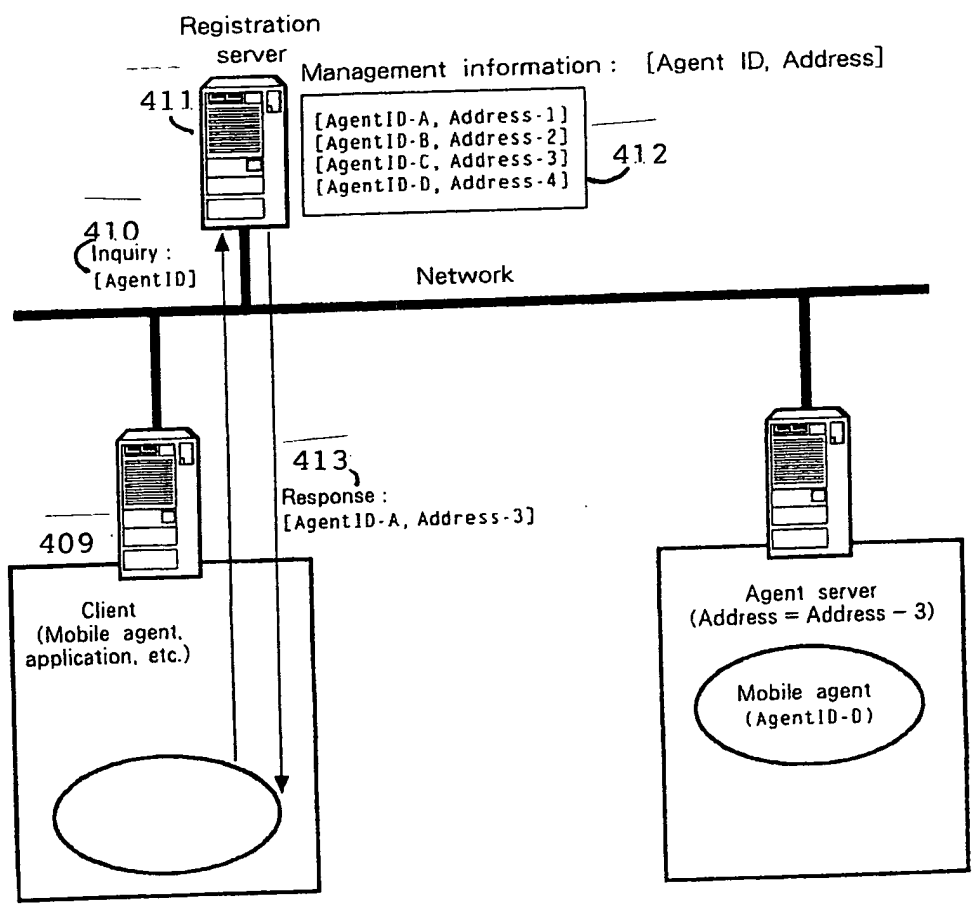


Fig. 4

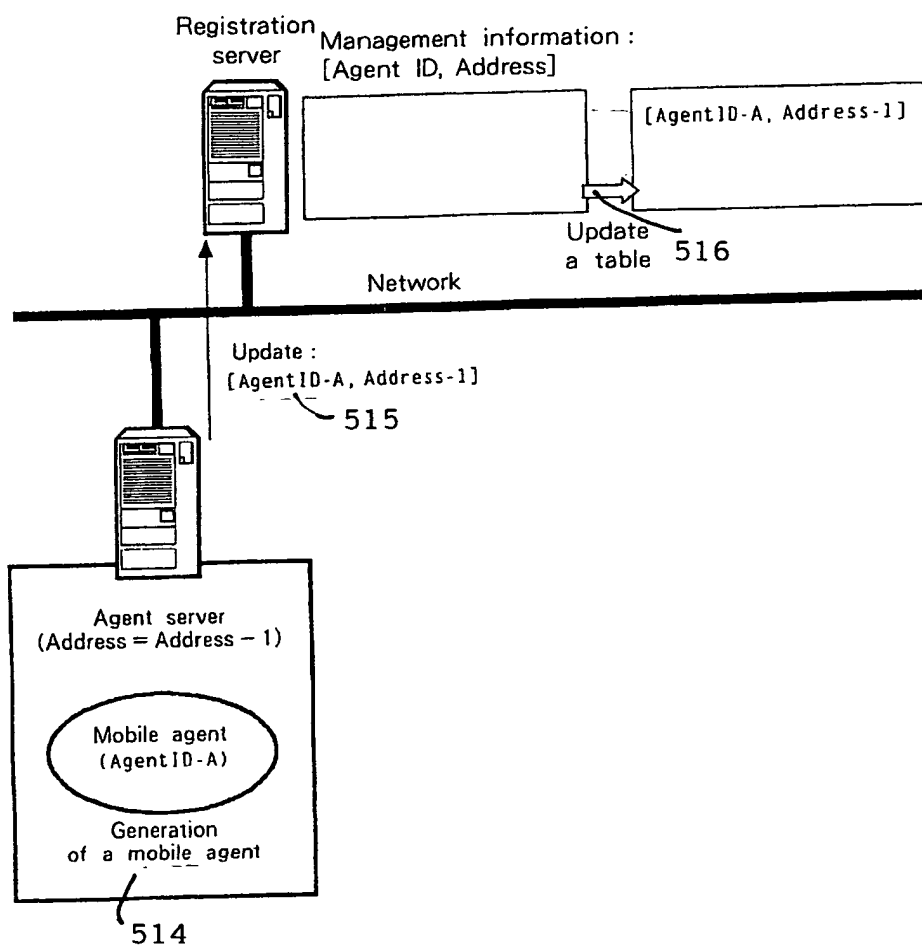


Fig. 5

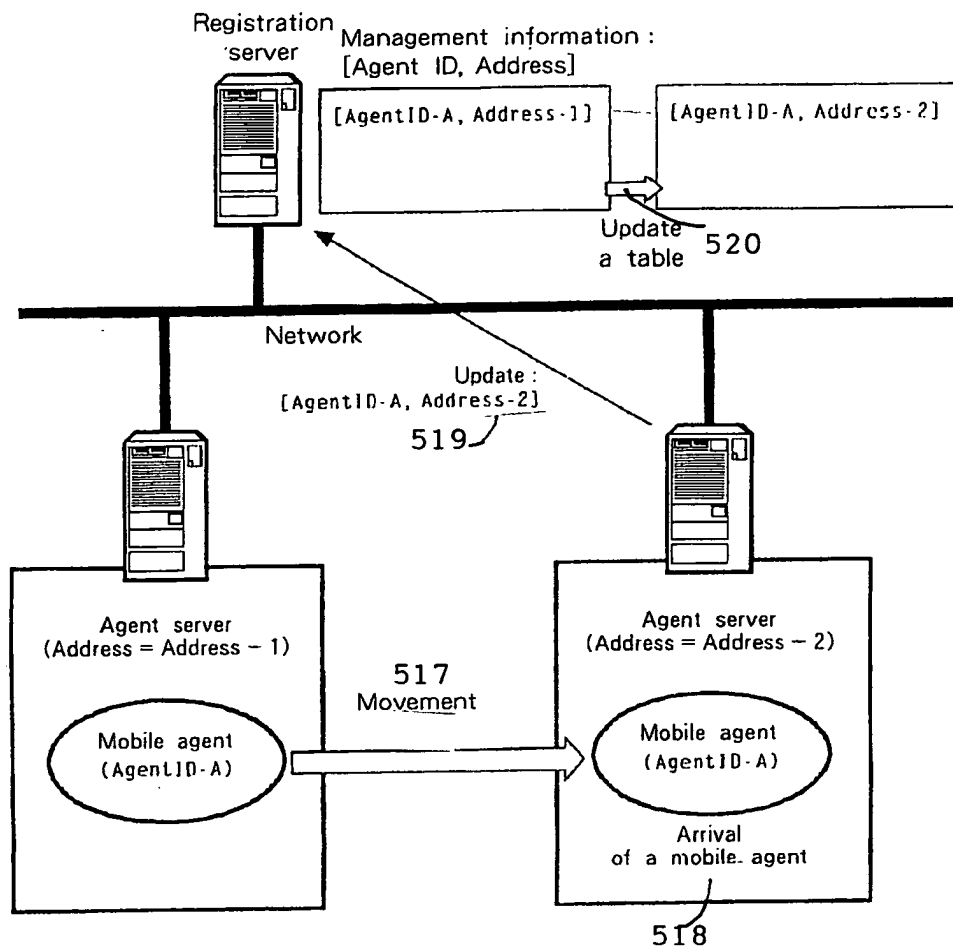


Fig. 6

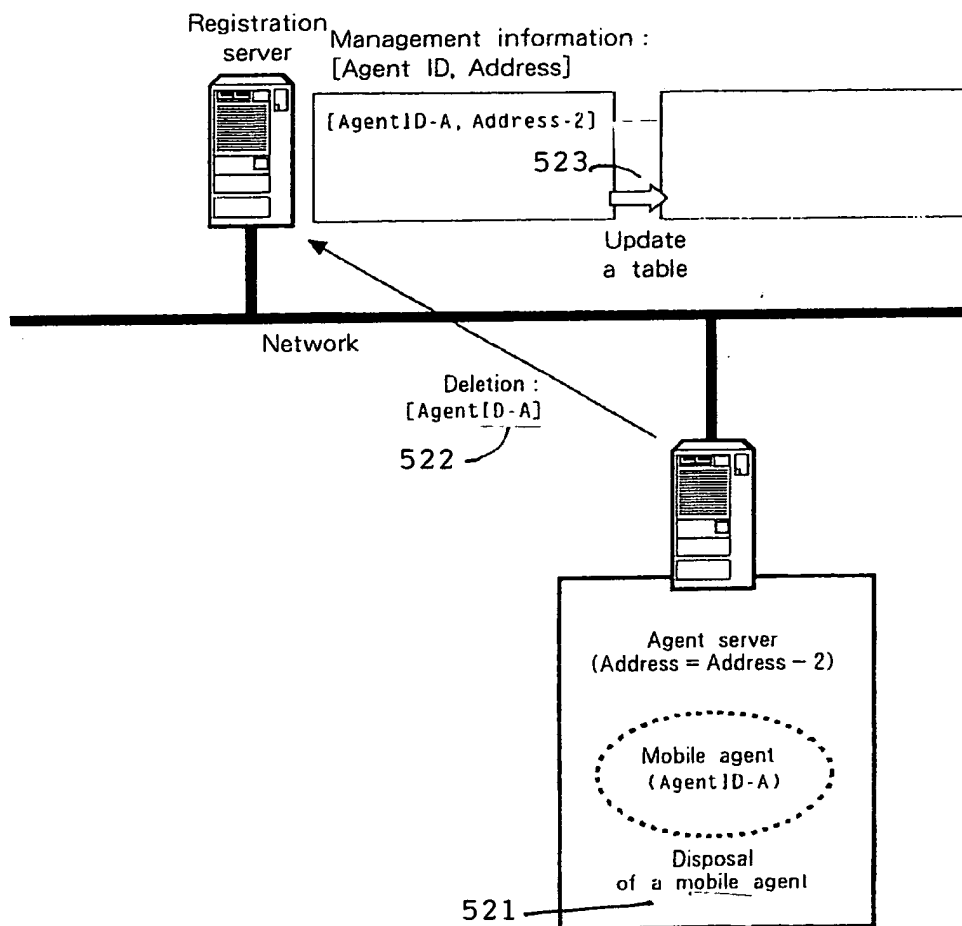


Fig. 7

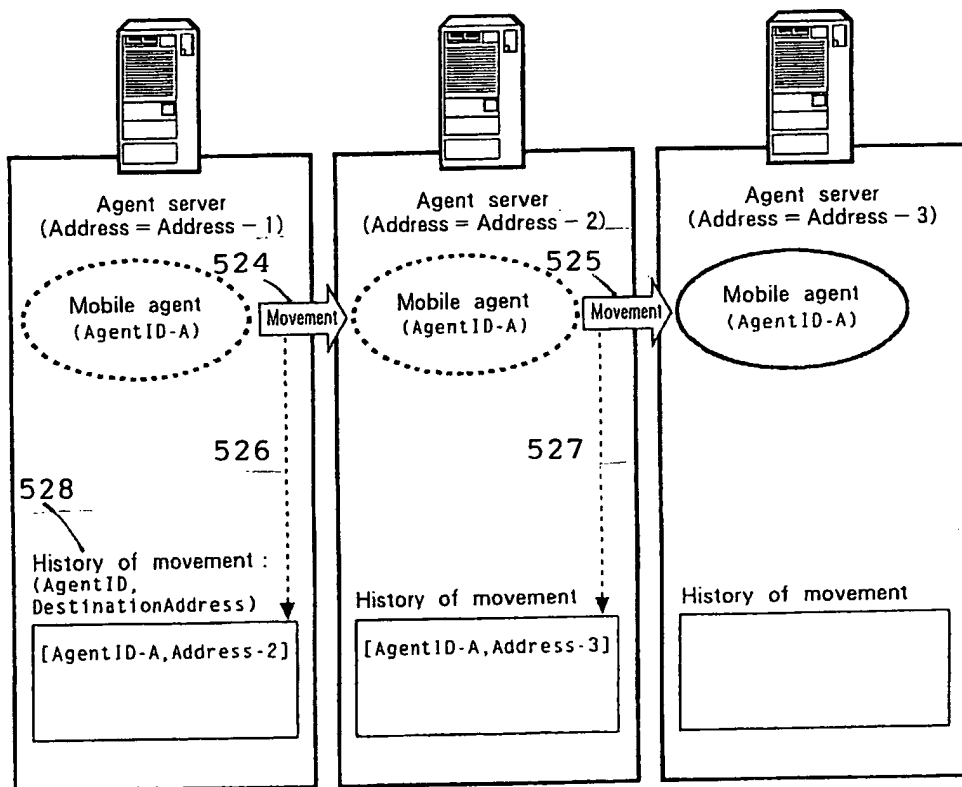


Fig. 8

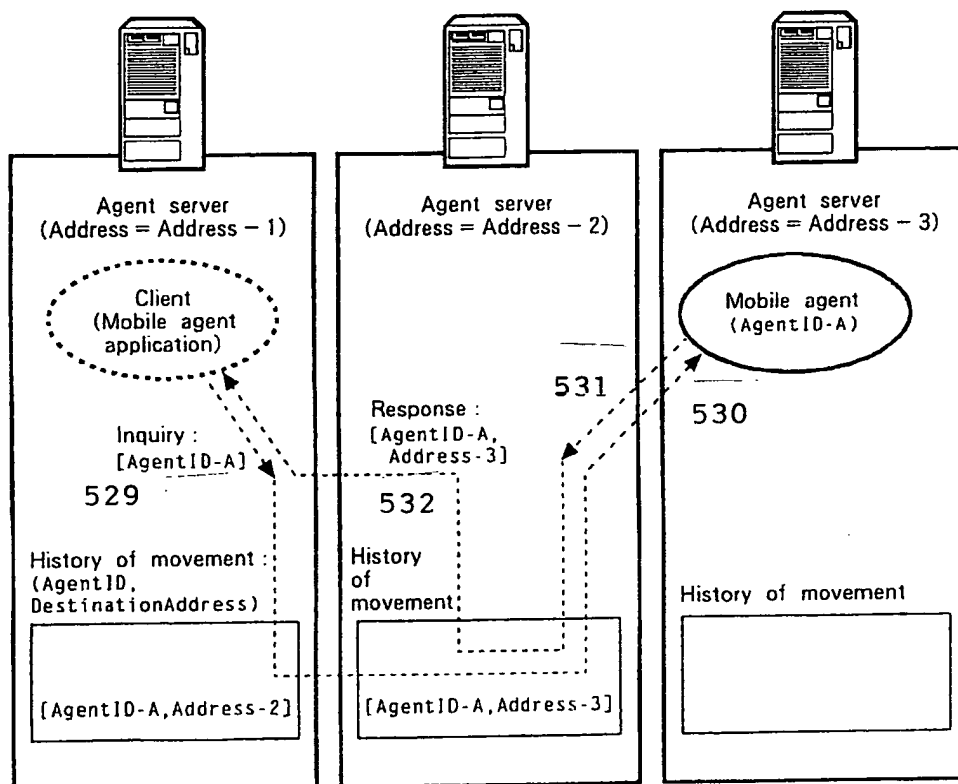


Fig. 9

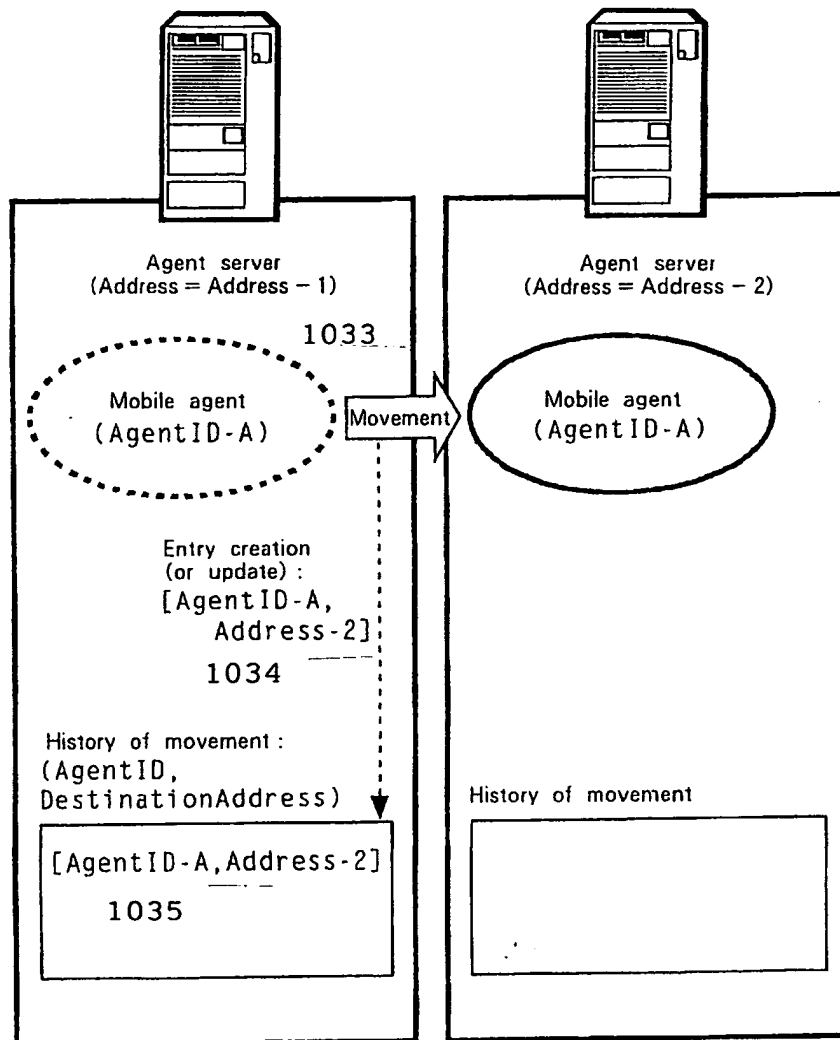


Fig. 10

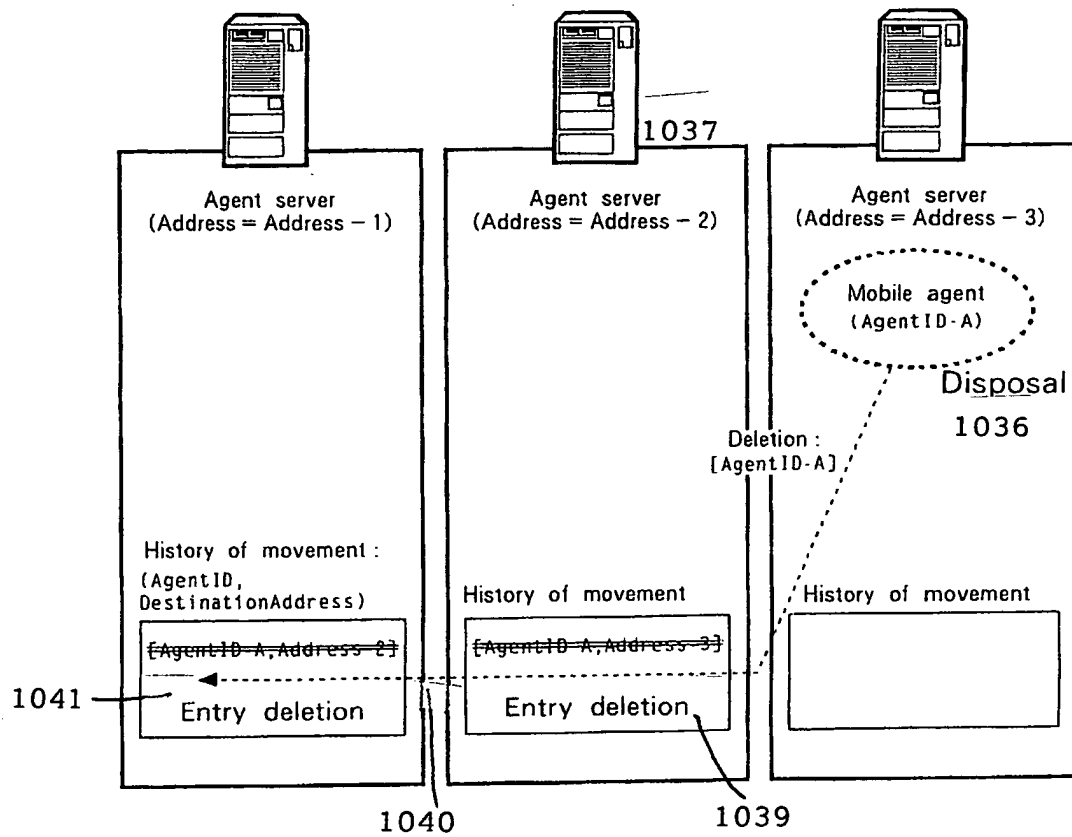


Fig. 11

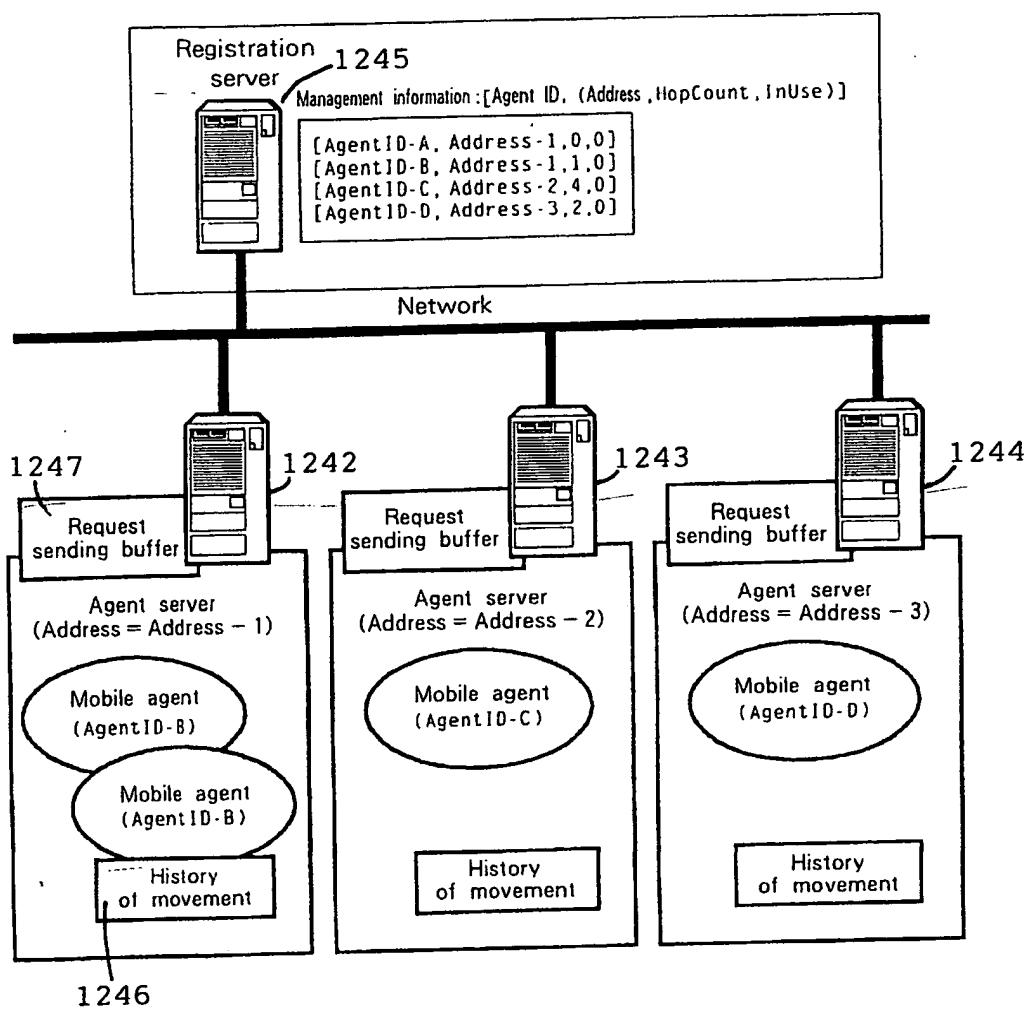


Fig. 12

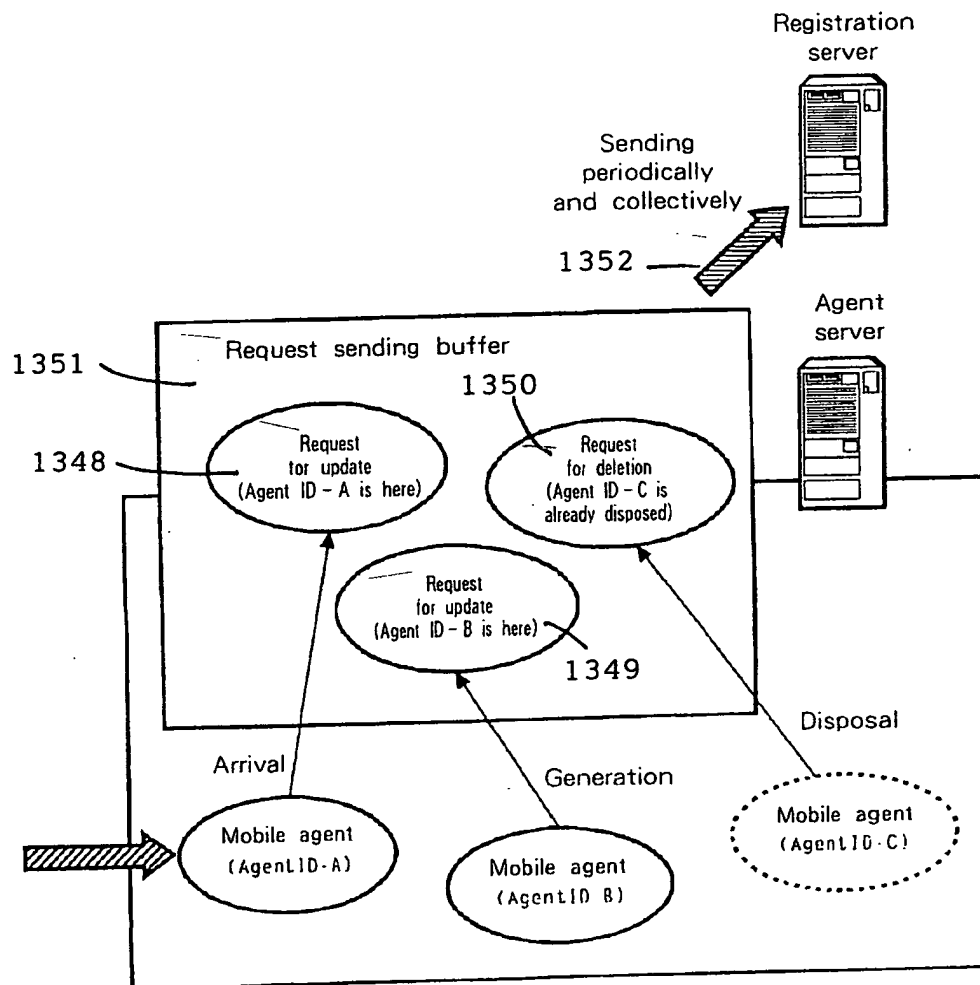


Fig. 13

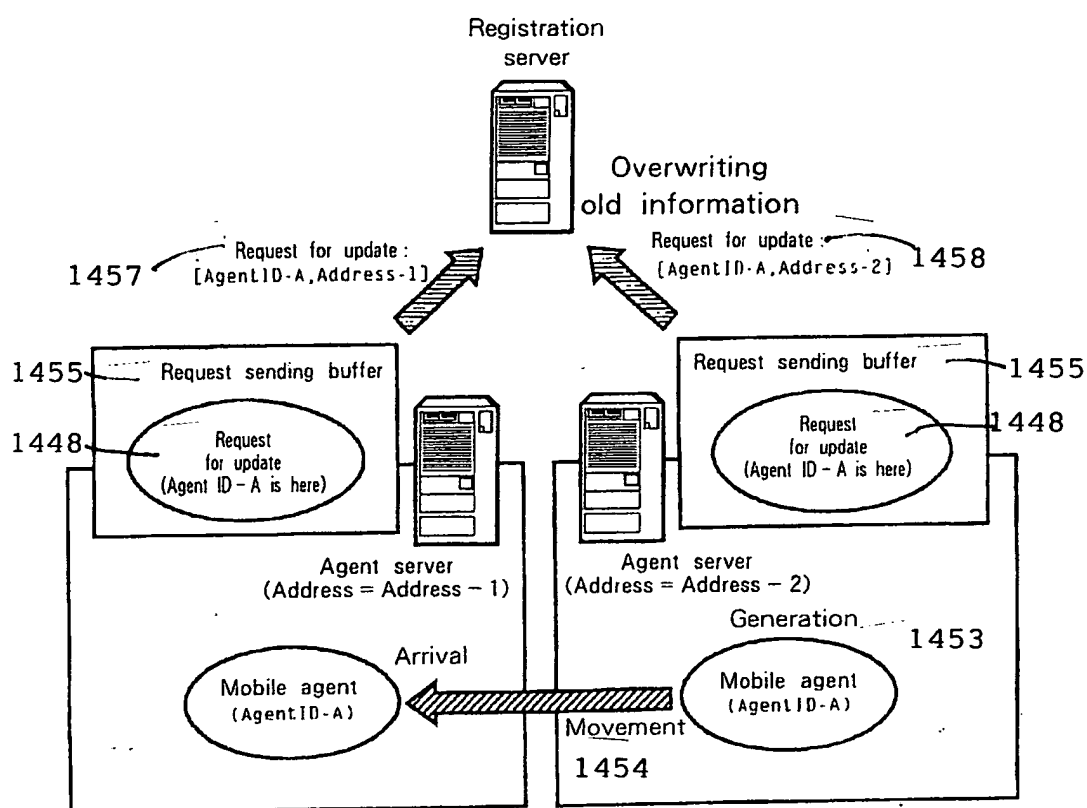


Fig. 14

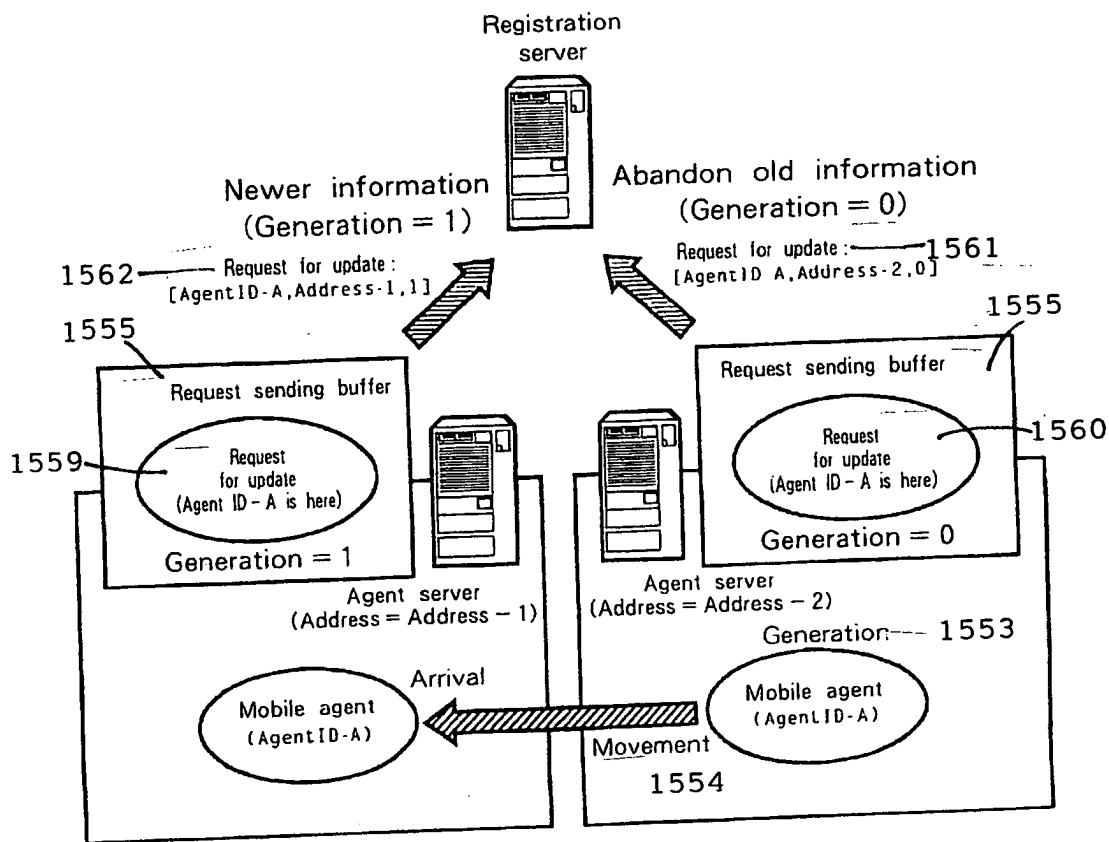


Fig. 15

Requests to be stored in a request buffer

[AgentID, (Kind, HopCount)]

Agent

An ID of a subject mobile agent

Kind

A kind of a request

REGIST: Generation, on arrival (requests update of a management table of an arrival server)

UNREGIST: On disposal (requests deletion of an entry from a management table of a registration server)

HopCount

A request generation

When a request is generated, total accumulated number of movement of a mobile agent

Fig. 16

Entries of a management table of a registration server

[AgentID, (Address, HopCount, InUse)]

AgentID

An ID of a subject mobile agent

Address

An address of an agent server, which is a starting point of tracing a mobile agent

HopCount

A request generation

When a request is generated, total accumulated number of movement of a mobile agent

InUse

Entry use count

If 1 or more, it is in use

Used in order to prevent deletion of an entry or history of movement while tracing

Fig. 17

History of movement

[AgentID, Destination]

AgentID

An ID of a subject mobile agent

Address

An address of an agent server of a movement destination of a mobile agent

Fig. 18

1745

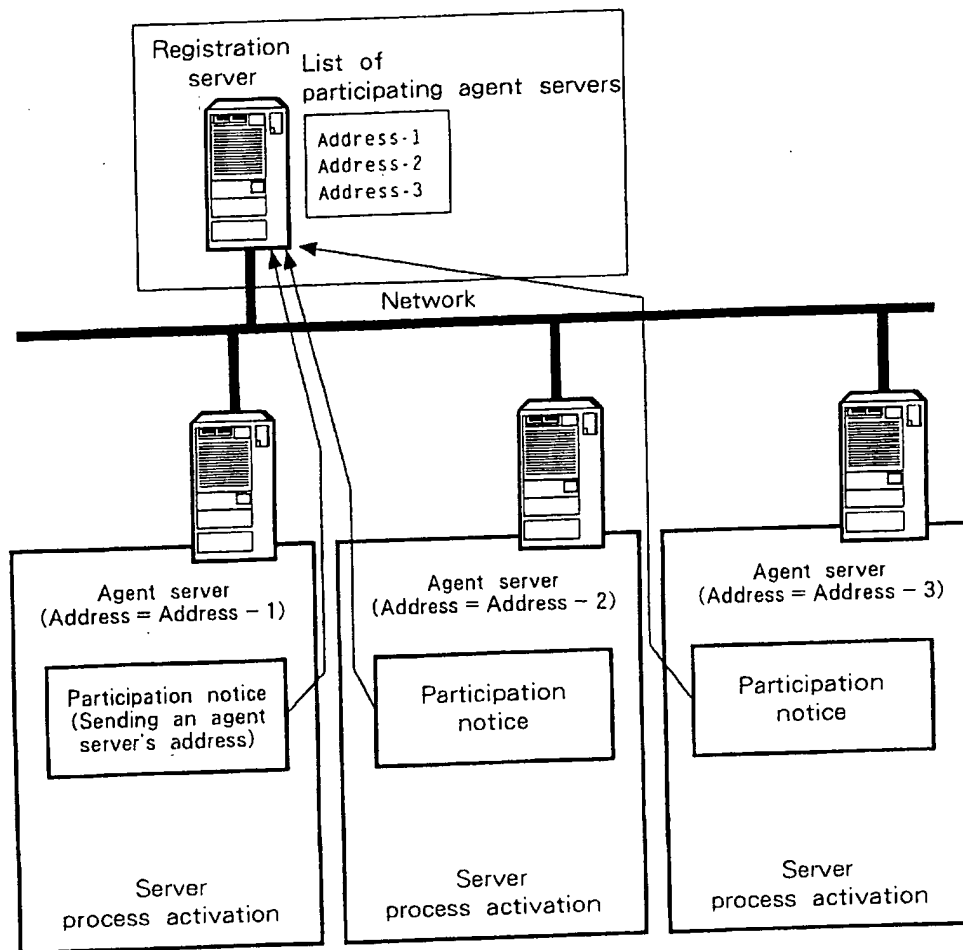


Fig. 19

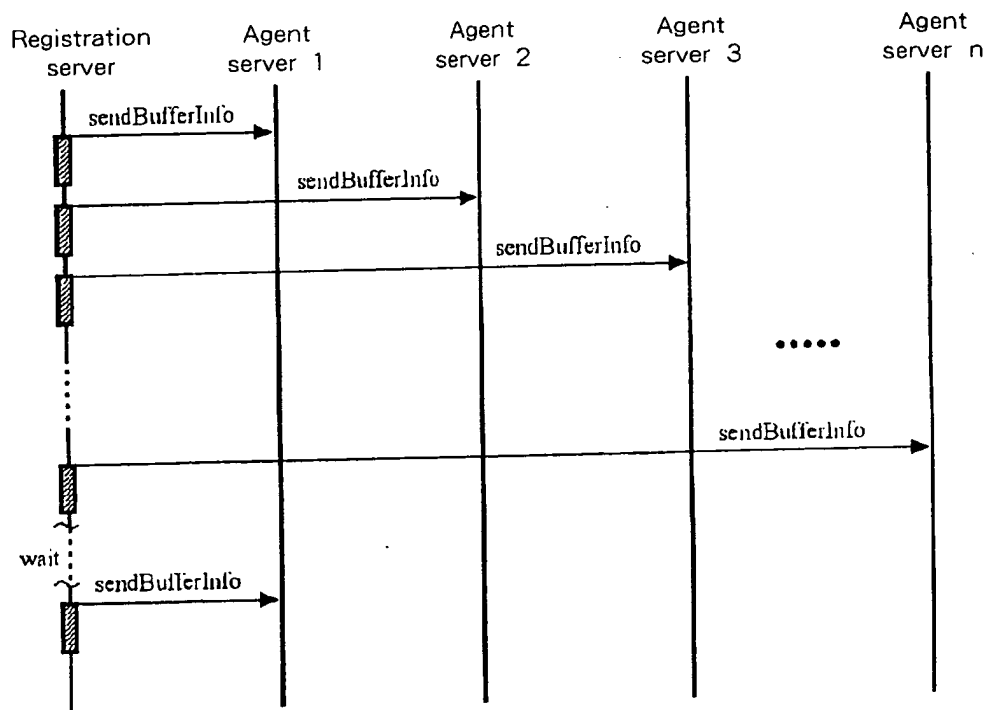


Fig. 20

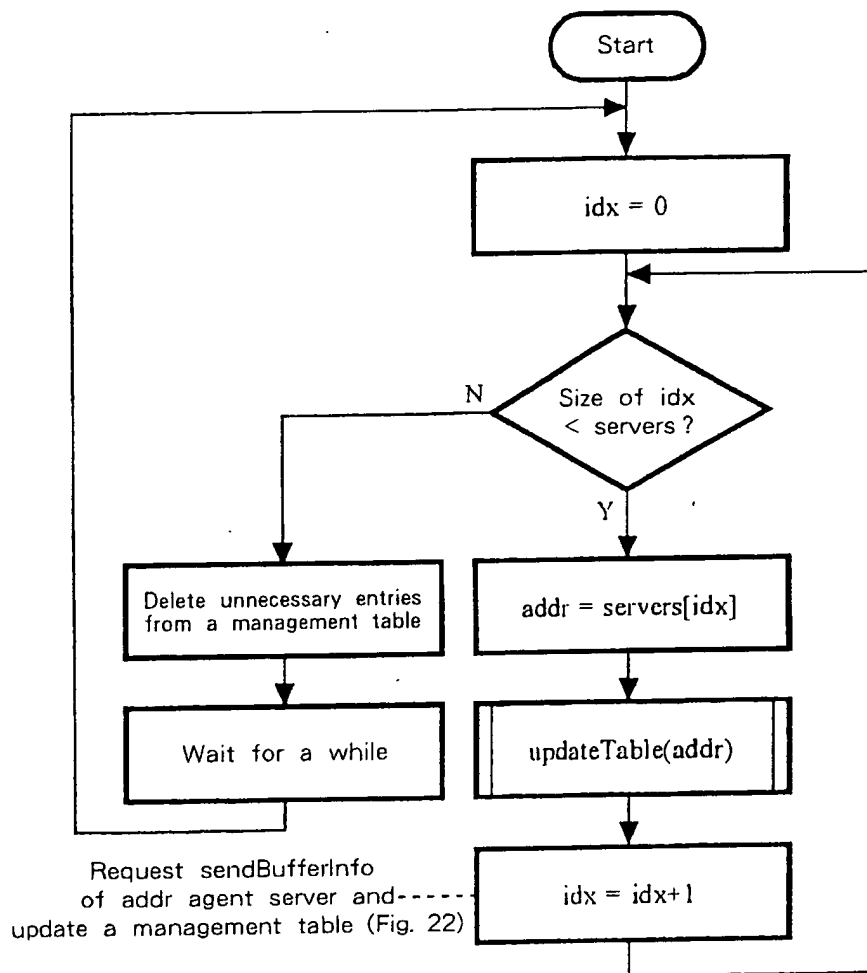


Fig. 21

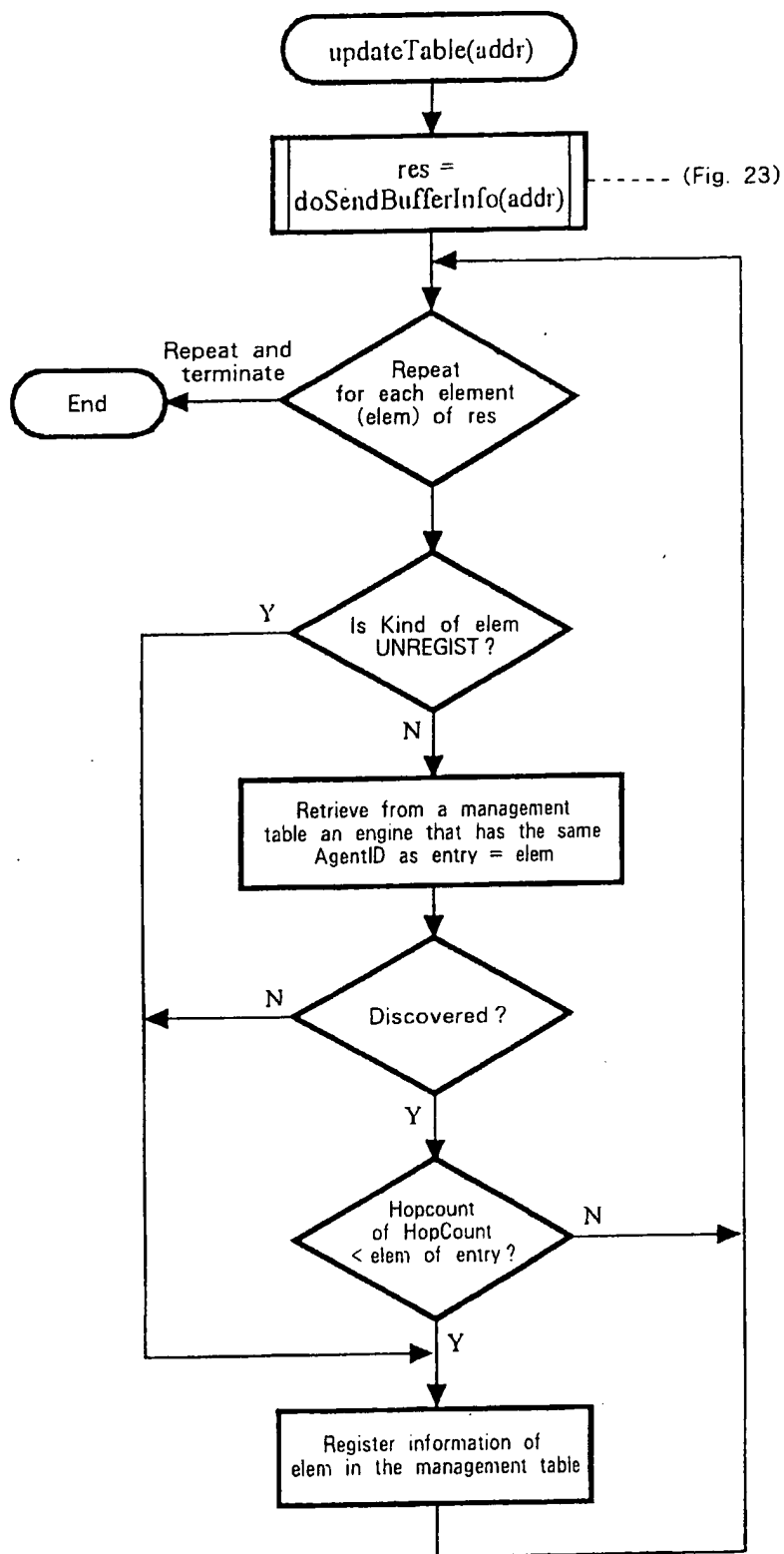


Fig. 22

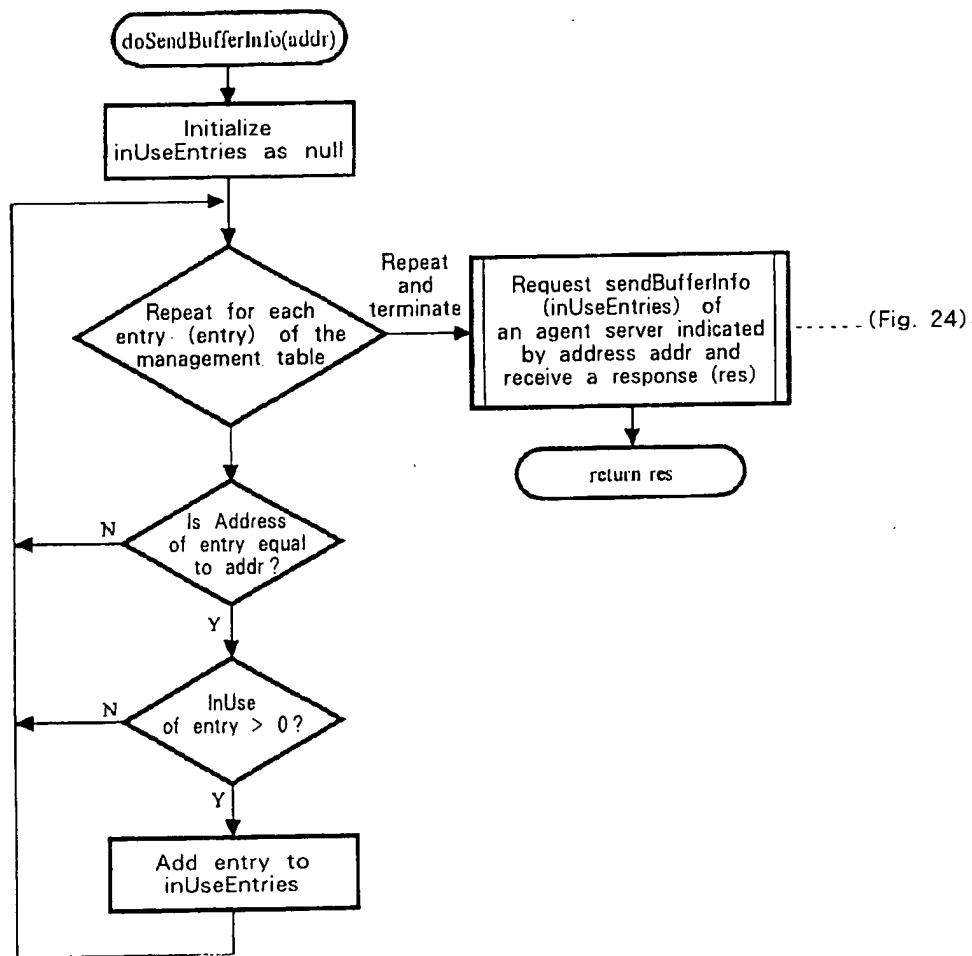


Fig. 23

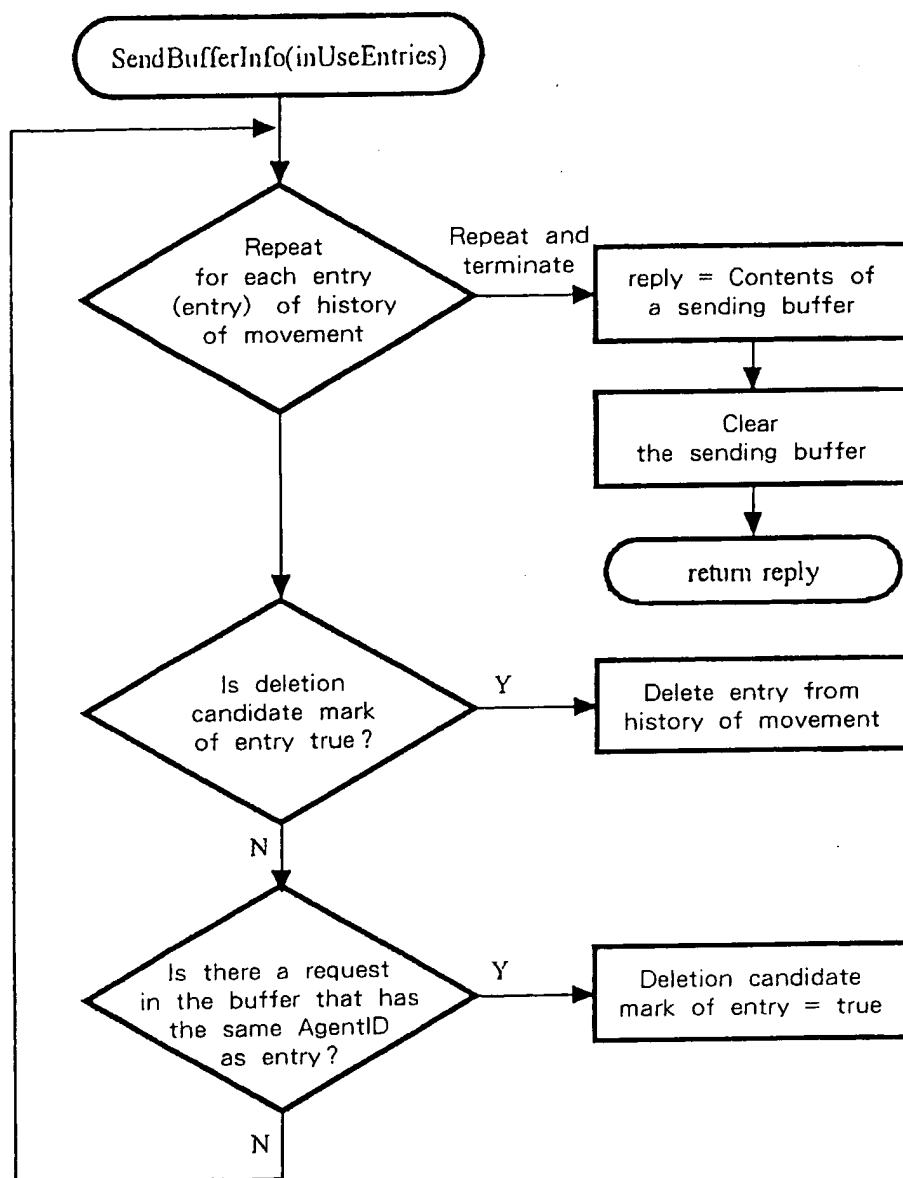


Fig. 24

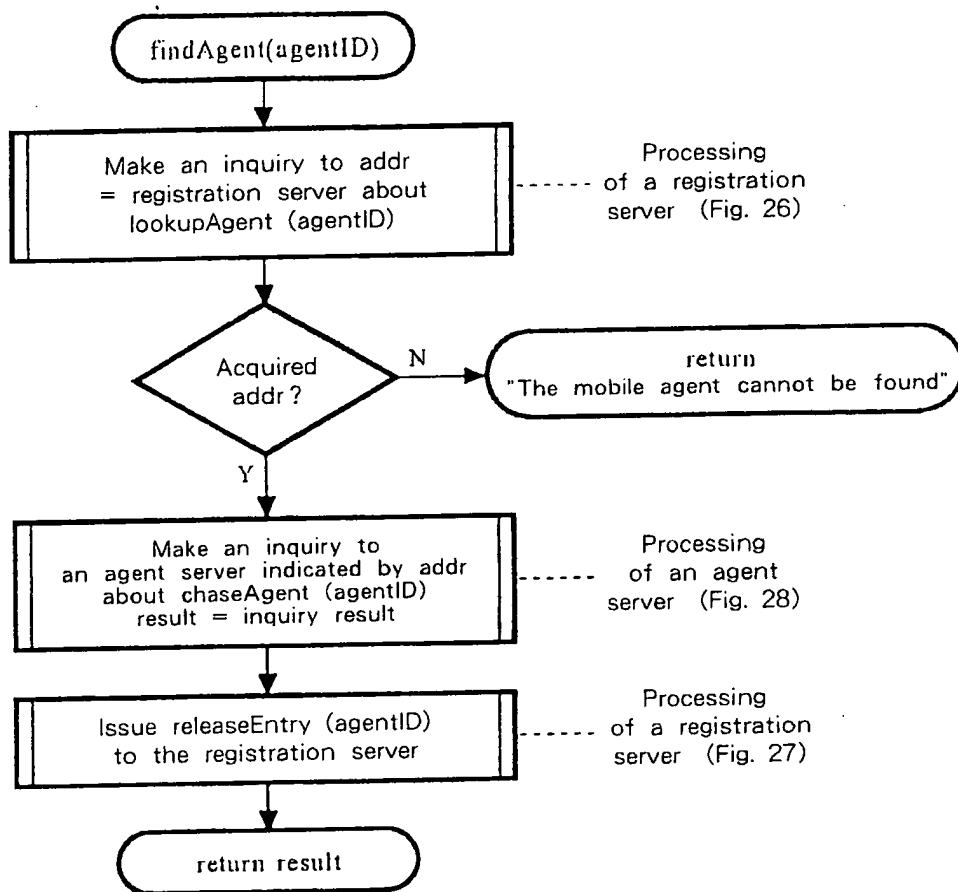


Fig. 25

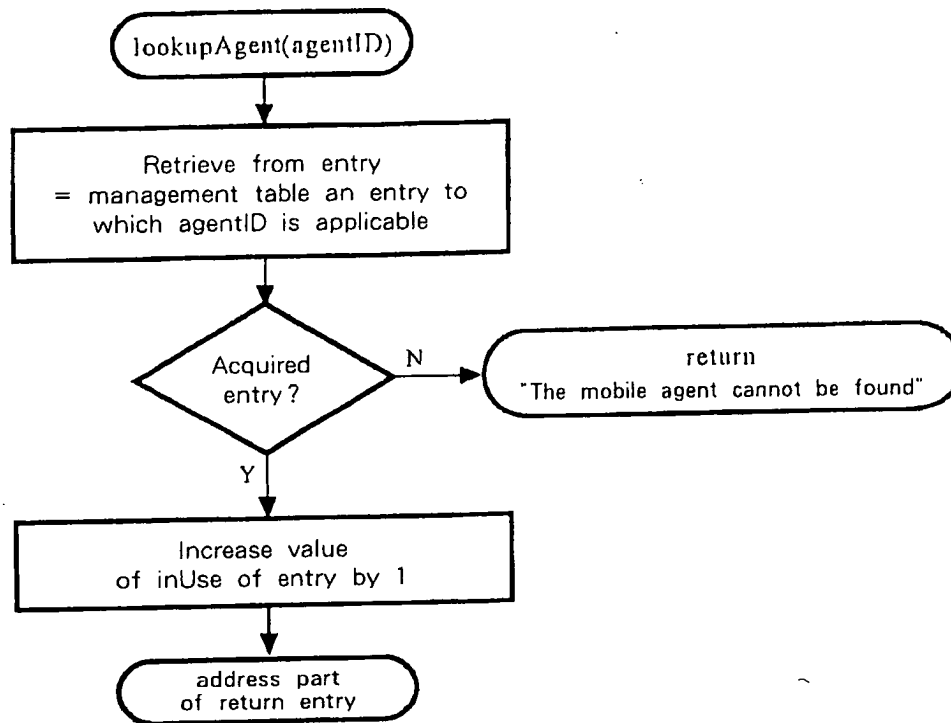


Fig. 26

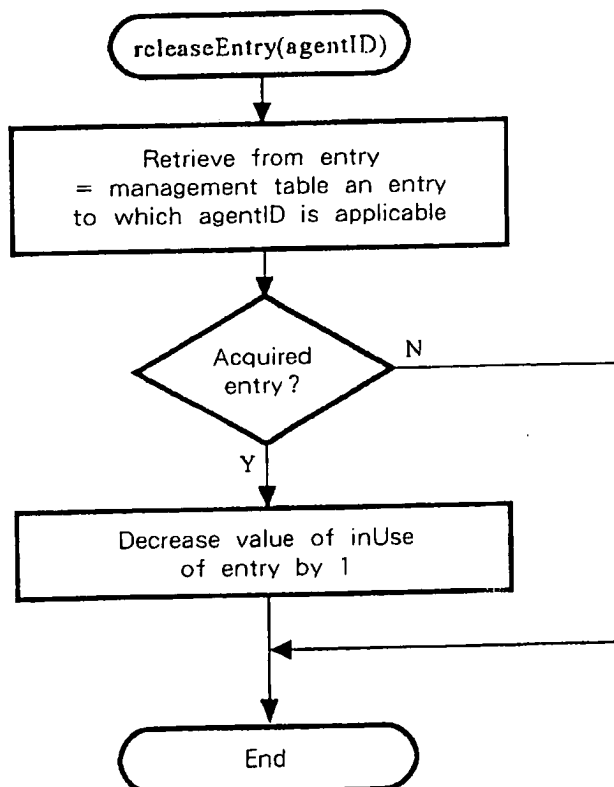


Fig. 27

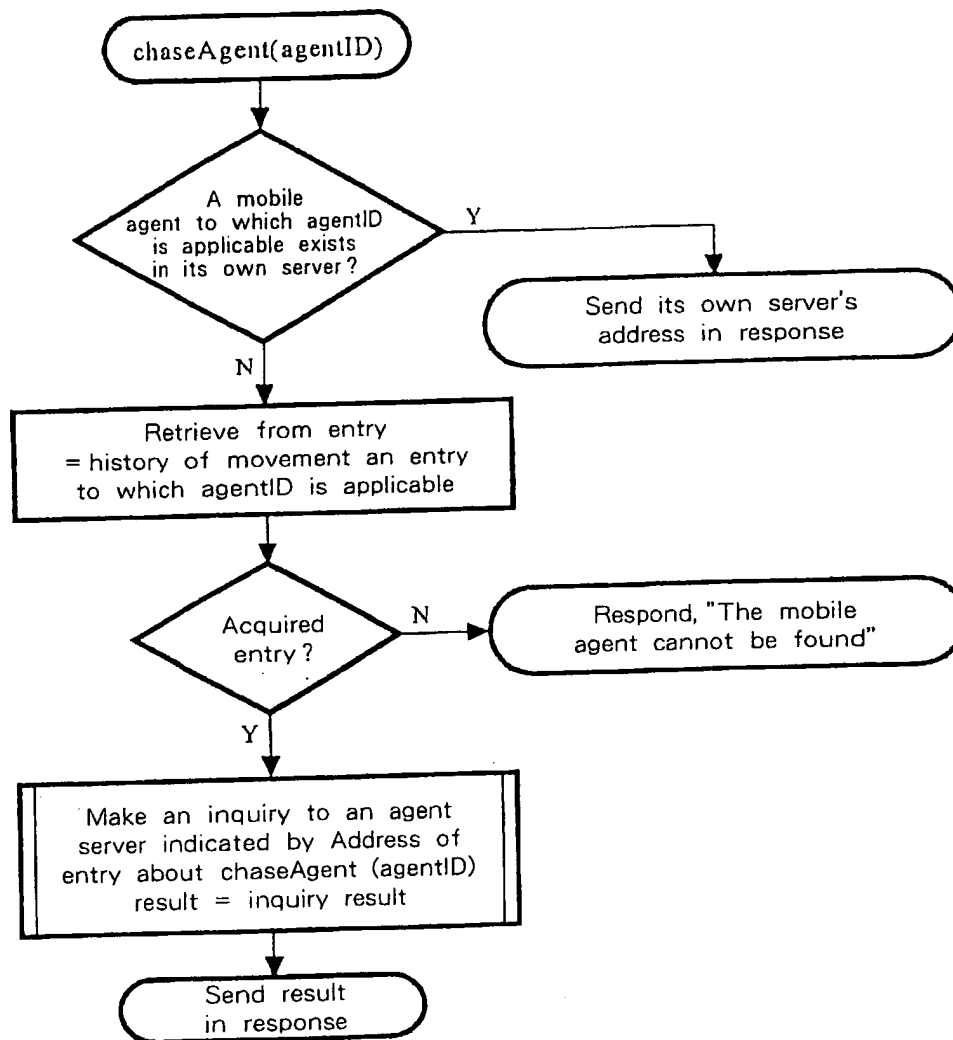


Fig. 28

Case 1 :

N = 9 (Total number of agents : 90)

Conventional method (Registry)	This method	No tracing facility
79,483	63,599	61,084
80,008	66,079	65,241
90,480	66,079	66,504

Fig. 29

Case 2 :

N = 15 (Total number of agents : 150)

Conventional method (Registry)	This method	No tracing facility
145,356	100,240	97,002
153,234	107,596	108,289
179,300	109,654	112,066

Fig. 30